

CLAIMS

What is claimed:

1. An apparatus for mitigating electromagnetic energy emanating from an electronic device, the apparatus comprising:
 - 5 a cover member having a proximal end and a distal end;
 - a retaining plate having a top surface, a bottom surface, a free end, and a fixed end, the retaining plate being spaced from the cover member and the bottom surface being configured to abut an electronic component extending from an opening in the electronic device; and
 - 10 a bight coupling the fixed end of the retaining plate to the proximal end of cover member and configured to provide the retaining plate with a biasing force away from the cover member.
2. The apparatus of Claim 1, wherein the retaining plate biasing force minimizes the free space around cabling as such cabling passes between the retaining plate bottom surface and an enclosure of the electronic device when the apparatus is mounted to the enclosure.
3. The apparatus of claim 1, wherein the electronic component is a cable.
4. The apparatus of claim 1, wherein the apparatus is substantially formed of conductive material to enhance the effectiveness of the apparatus in mitigating electromagnetic energy emanating from the electronic device.
- 20 25 5. The apparatus of claim 1, wherein the cover member further comprises first and second side walls extending from opposite side edges of the cover member towards the plane of the retaining plate, the first and second side walls having a length and height sufficient to further reduce the amount of electromagnetic energy dispersing out of the apparatus as the apparatus is mounted to an enclosure of the electronic device.
6. The apparatus of claim 5, wherein the first and second side walls are arranged in a generally perpendicular orientation to the cover member.

7. The apparatus of claim 5, further comprising an end wall extending from the distal end of the cover member towards the enclosure as the apparatus is mounted to the enclosure, the end flange having a length and height sufficient to further reduce the amount of electromagnetic energy dispersing out of the apparatus 5 from inside the apparatus when the apparatus is mounted to the enclosure.

8. The apparatus of claim 5, further comprising first and second base flanges extending from the first and second side walls in a plane parallel to the cover member to provide surfaces for mounting the apparatus to the electronic device enclosure.

10 9. The apparatus of claim 1, further comprising an attachment means connected to the cover member to mount the apparatus to an enclosure of the electronic device.

10. The apparatus of claim 1, wherein the free end of the retaining plate comprises a curved lip extending towards the cover member.

15 11. An apparatus for mitigating electromagnetic energy emanating from an electronic device, the apparatus comprising:

a first planar member having a proximal end and a distal end;
a return bend disposed at the proximal end of the first planar member and extending downward; and

20 a second planar member having a top surface, a bottom surface, a free end, and a fixed end, the second planar member connected to the return bend at the fixed end and generally disposed below the first planar member, the bottom surface being configured to abut an electronic component extending from an opening of the electronic device;

25 wherein the first planar member, the second planar member, and the return bend are cooperatively configured to provide a biasing force towards an enclosure of the electronic device to hold the electronic component between the retaining plate bottom surface of the second planar member and the enclosure when the apparatus is mounted to the 30 enclosure of the electronic device.

12. The apparatus of claim 11, further comprising first and second side walls extending from opposite side edges of the first planar member towards the second planar member.

13. The apparatus of claim 11, further comprising an end wall extending
5 from the distal end of the first planar member towards the second planar member.

14. The apparatus of claim 12, further comprising first and second base flanges extending outwardly from the first and second side walls in a plane parallel to the first planar member to provide surfaces for mounting the apparatus onto the electronic device enclosure.

10 15. A method for mitigating electromagnetic energy emanating from an electronic device comprising the steps of:

forming a cover member having a proximal end and a distal end;
forming a retaining plate having a top surface, a bottom surface, a free end,
15 and a fixed end, the retaining plate being spaced from the cover member and the bottom surface being configured to abut an electronic component extending from an opening of an enclosure of the electronic device; and

20 forming an interconnection between the fixed end of the retaining plate and the proximal end of cover member, the interconnection providing a biasing force for the retaining plate away from the cover member;

25 placing the interconnected cover member and retaining plate over the opening in the electronic device and over a portion of the electronic component extending from the opening to hold the electronic component between the retaining plate bottom surface and the electronic device enclosure;

mitigating the electromagnetic energy present in the enclosure by capacitive coupling.

30 16. The method of claim 16, further comprising the step of mounting the interconnected cover member and retaining plate to the enclosure of the electronic component.

17. The method of claim 16, wherein the step of forming a retaining plate comprises forming the retaining plate with a length and width sufficient to mitigate electromagnetic energy from dispersing from an opening of the electronic device.